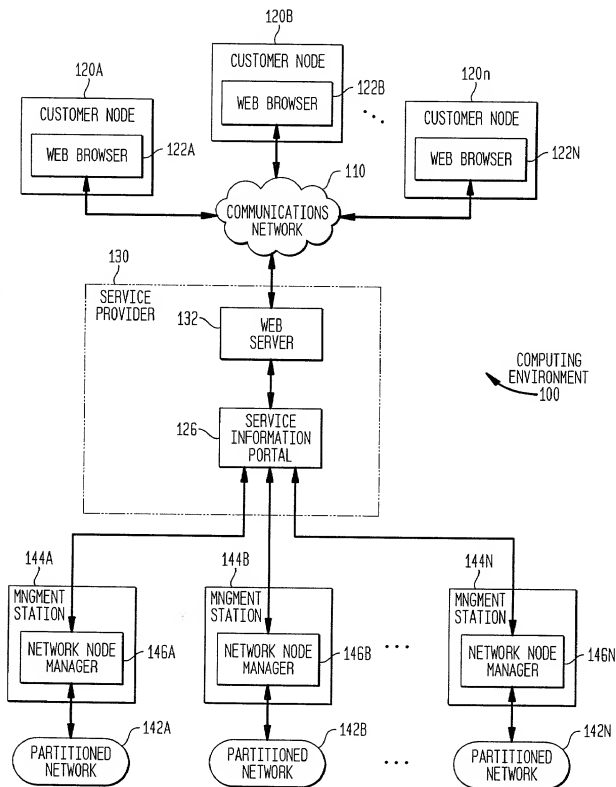


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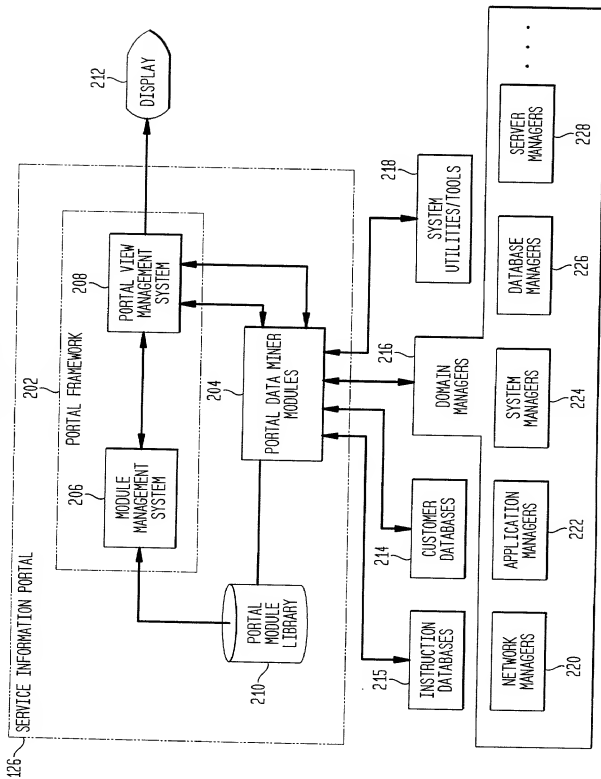
FIG. 1



Inventor(s): Robert Raymond

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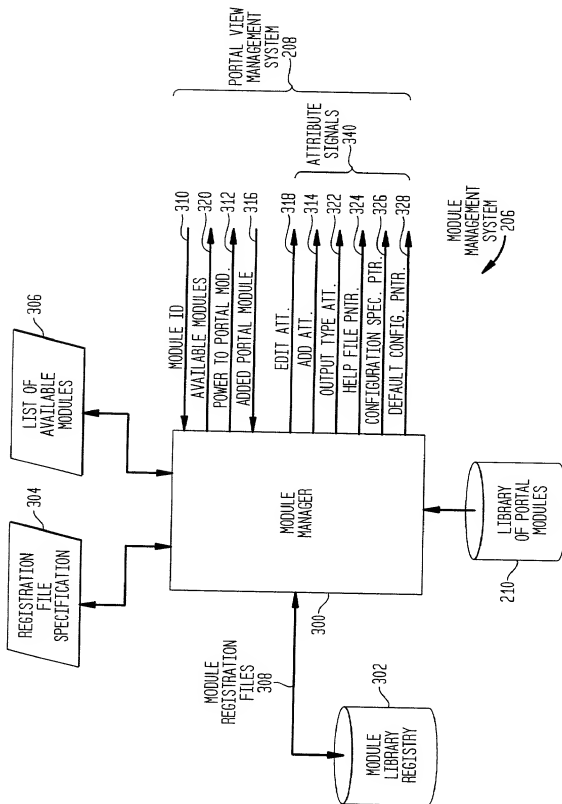
FIG. 2



Inventor(s): Robert Raymond

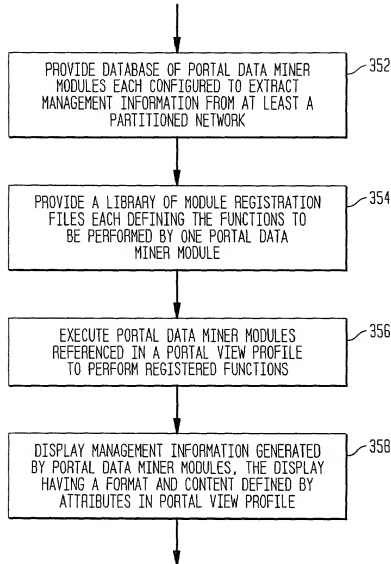
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FIG. 3A



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FIG. 3B



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FIG. 4

MODULE REGISTRATION  
FILE SPECIFICATION  
400

```
1 <!-- OVMModuleRegistration.dtd -->
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company -->
4 <!-- $Revision: /main/BACCHUS/8 $ -->
5 <!-- $Date: 2001/03/15 00:13 UTC $ -->
6 -----
7 <!ELEMENT ModuleRegistration EMPTY>
8
9 <!ATTLIST ModuleRegistration
10     vendorName      CDATA #IMPLIED
11     vendorURL       CDATA #IMPLIED
12     description     CDATA #IMPLIED
13     version         CDATA #IMPLIED
14     category        CDATA "General"
15     title           CDATA #IMPLIED
16     classid         ID #REQUIRED
17     implementation   CDATA #REQUIRED
18     outputType
19     (narrow|NARROW|wide|WIDE|any|ANY) "narrow"
20     add
21     (1|0|YES|yes|NO|no) "no"
22     edit
23     (1|0|YES|yes|NO|no) "no"
24     help            CDATA #IMPLIED
25     configDTD       CDATA #IMPLIED
26     defaultConfigXML CDATA #IMPLIED>
```

HEADER  
DATA  
402

ATTRIBUTE  
LIST  
406

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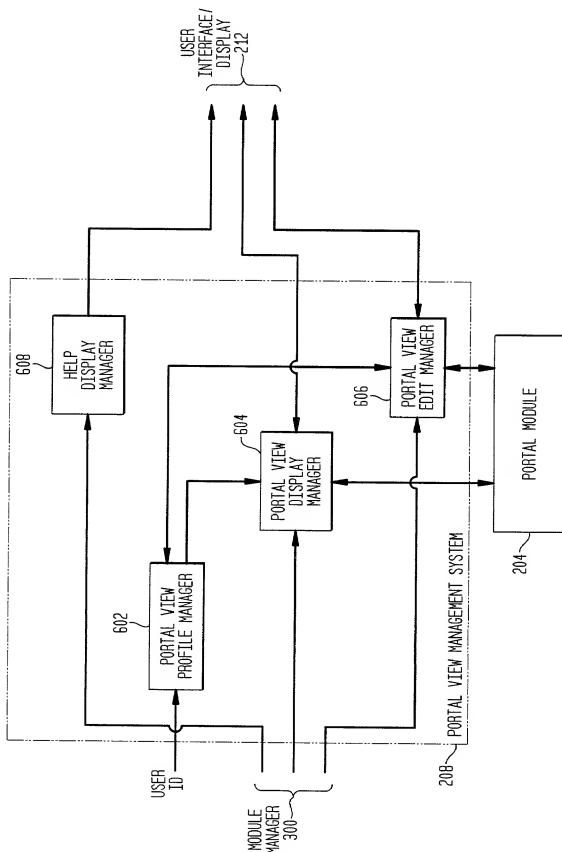
FIG. 5

NETWORK HEALTH MODULE  
REGISTRATION FILE  
500

```
1 <?xml version="1.0" standalone="no"?>
2 <!DOCTYPE ModuleRegistration SYSTEM
3 "OVModuleRegistration.dtd">
4 <ModuleRegistration
5   vendorName  ="Hewlett-Packard
6     Company"
7   vendorURL   ="http://www.
8     openview.hp.com"
9   description  ="HP OpenView SIP Network
10     Device Health Module"
11   version     ="2.0"
12   category    ="NNM"
13   title       ="Network Device
14     Health"
15   classid     ="com.hp.ov.portal.
16     modules.health"
17   implementation
18     ="/servlet/com.hp.ov.
19     portal.modules.health.
20     HealthServlet"
21   outputType  ="narrow"
22   add         ="yes"
23   edit        ="yes"
24   help        ="/OvSipDocs/C/help/
25     NNM/healthView.html"
26   configDTD   ="OVNetworkHealth.dtd"
27   defaultConfigXML
28     ="defaults/
29     OVDefaultNetHealth.
30     xml"
31 />
```

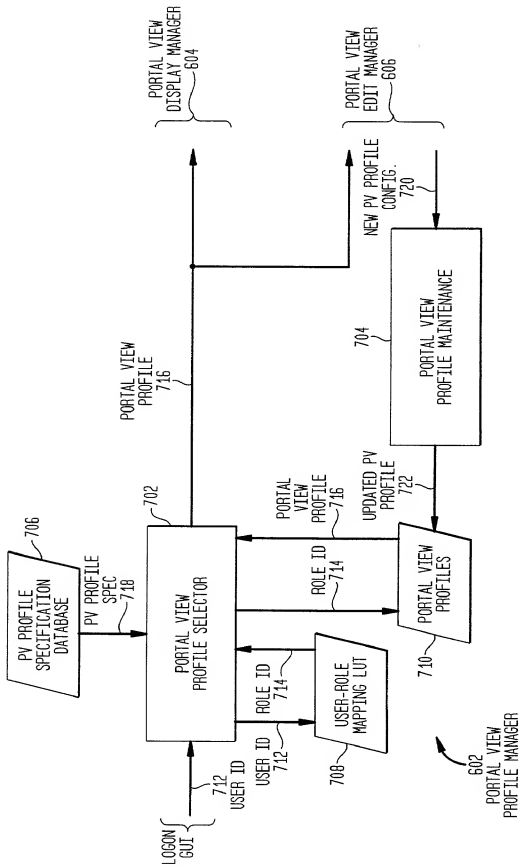
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FIG. 6



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FIG. 7

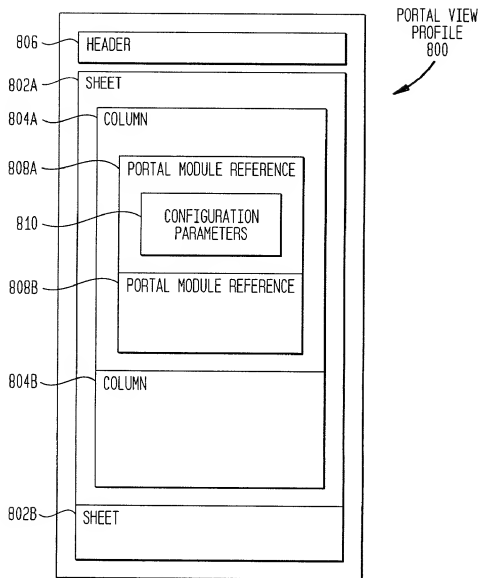




Inventor(s): Robert Raymond

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FIG. 8



Inventor(s): Robert Raymond

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FIG. 9

NETWORK HEALTH PORTAL  
VIEW PROFILE SPECIFICATION

900

```
1 <!-- OVNetworkHealth.dtd
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company
4 <!-- $Revision: /main/BACCHUS/7 $
5 <!-- $Date: 2001/04/11 20:41 UTC $
6 <!--
7 <!ELEMENT NetworkHealth (Summary+)>
8 <!ATTLIST NetworkHealth
9   showRawData (yes|no|YES|NO|1|0) "no"
10  showUnknown (yes|no|YES|NO|1|0) "no"
11 >
12
13 <!ELEMENT Summary (Component+,
14 (NodeSelection | InterfaceSelection))>
15 <!ATTLIST Summary
16   id CDATA #REQUIRED
17   title CDATA #REQUIRED
18   display (yes|no|YES|NO|1|0) "yes"
19   displayDepth (1|2|3) "3"
20 >
```

HEADER  
902

NETWORK HEALTH  
ELEMENT SPEC.  
904

SUMMARY ELEMENT  
SPEC.  
906

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FIG. 10

FIGURE 10A
FIGURE 10B
FIGURE 10C
FIGURE 10D
FIGURE 10E
FIGURE 10F
FIGURE 10G

FIG. 10A  
FIG. 10B  
FIG. 10C  
FIG. 10D  
FIG. 10E  
FIG. 10F  
FIG. 10G

Inventor(s): Robert Raymond

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FIG. 10A

PORTAL  
VIEW PROFILE  
1000

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE PortalView SYSTEM
3 ".\PortalView.dtd">
4 <PortalView
5 colorScheme="/OvSipDocs/styles/default.css"
6 defaultSheetID="NetworkSheet"
7 refreshRate="5000" showDateTime="yes"
8 showUserName="yes" userName="Any User">
9   <Sheet id="NetworkSheet" title="Network">
10     <Column width="narrow">
11       <ModuleInstance
12 classid="com.hp.ov.portal.modules.health"
13 display="yes" id="NetworkHealth"
14 rollupState="down">
15       <NetworkHealth showRawData="no"
16 showUnknown="no">
17       <Summary display="no"
18 displayDepth="3" id="InterfaceHealth"
19 title="Interface Health">
20       <Component href="#IfStatus"
21 vital="yes" weight="2"/>
22       <Component href="#IfUtil"
23 vital="no" weight="1"/>
24       <Component href="#IfInErrors"
25 vital="no" weight="1"/>
26       <Component
27 href="#IfOutErrors" vital="no" weight="1"/>
28       <InterfaceSelection
29 id="AllInterfaces" op="AND" title="All
30 Interfaces"/>
31     </Summary>
```

HEADER  
1002

PORTAL VIEW  
WINDOW  
ATTRIBUTES  
1004

PORTAL MODULE  
REFERENCE  
1006A

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FIG. 10B

PORTAL  
VIEW PROFILE  
1000

32 <Summary display="yes"  
33 displayDepth="3" id="RouterHealth"  
34 title="Router Health">  
35 <Component href="#IfHealth"  
36 vital="no" weight="1"/>  
37 <Component  
38 href="#CiscoCpuUtil" vital="no" weight="1"/>  
39 <NodeSelection id="Routers"  
40 op="AND" title="Routers">  
41 <CapabilityFilter op="OR">  
42 <Capability  
43 field="isRouter" value="true"/>  
44 </CapabilityFilter>  
45 </NodeSelection>  
46 </Summary>  
47 <Summary display="no"  
48 displayDepth="3" id="KeyDeviceHealth"  
49 title="Key Device Health">  
50 <Component href="#IfHealth"  
51 vital="no" weight="1"/>  
52 <NodeSelection  
53 id="KeyDevices" op="AND" title="Key Devices">  
54 <CapabilityFilter op="OR">  
55 <Capability  
56 field="isKeyDevice" value="true"/>  
57 </CapabilityFilter>  
58 </NodeSelection>  
59 </Summary>

PORTAL MODULE  
REFERENCE  
1006A (CONT)

Inventor(s): Robert Raymond

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FIG. 10C

PORTAL  
VIEW PROFILE  
1000

PORTAL MODULE  
REFERENCE  
1006A (CONT)

```
60 <Summary display="no"
61 displayDepth="3" id="CPEHealth" title="CPE
62 Health">
63 <Component href="#IfHealth"
64 vital="no" weight="1"/>
65 <NodeSelection id="CPE"
66 op="AND" title="Customer Premise Equipment">
67 <CapabilityFilter op="OR">
68 <Capability
69 field="isCPE" value="true"/>
70 </CapabilityFilter>
71 </NodeSelection>
72 </Summary>
73 <Summary display="no"
74 displayDepth="3" id="ServerHealth"
75 title="Server Health">
76 <Component href="#IfHealth"
77 vital="no" weight="1"/>
78 <NodeSelection id="Servers"
79 op="AND" title="Servers">
80 <CapabilityFilter op="OR">
81 <Capability
82 field="isServer" value="true"/>
83 </CapabilityFilter>
84 </NodeSelection>
85 </Summary>
86 </NetworkHealth>
87 </ModuleInstance>
```

Inventor(s): Robert Raymond

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FIG. 10D

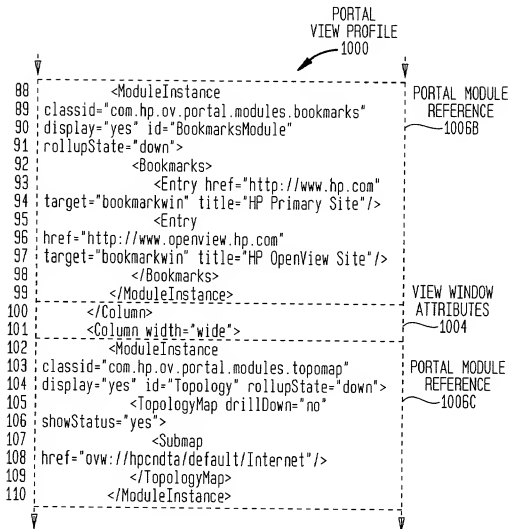
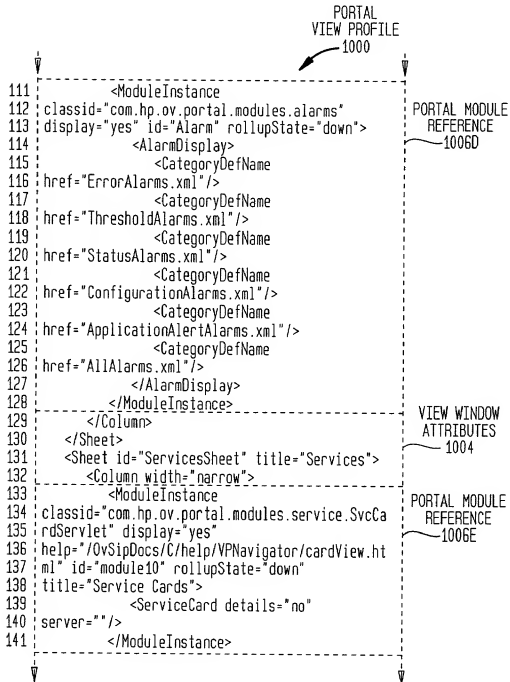


FIG. 10E

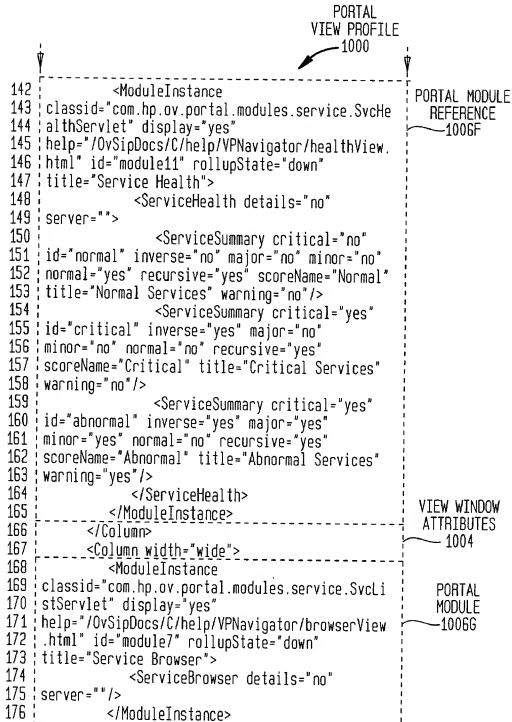




Inventor(s): Robert Raymond

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FIG. 10F



Inventor(s): Robert Raymond

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FIG. 10G

PORTAL  
VIEW PROFILE  
1000

```
177 <ModuleInstance
178 classid="com.hp.ov.portal.modules.service.SvcGr
179 aphServlet" display="yes"
180 help="/OvSipDocs/C/help/VPNavigator/graphView.h
181 tml" id="module8" rollupState="down"
182 title="Service Graph">
183     <ServiceGraph server=""/>
184 </ModuleInstance>
185 </Column>
186 </Sheet>
187 </PortalView>
```

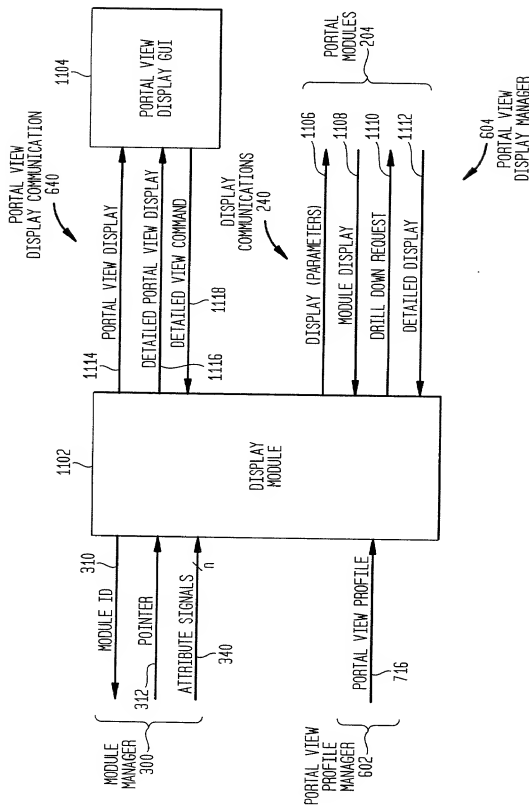
PORTAL MODULE  
REFERENCE  
1006H

VIEW WINDOW  
ATTRIBUTES  
1004

Inventor(s): Robert Raymond

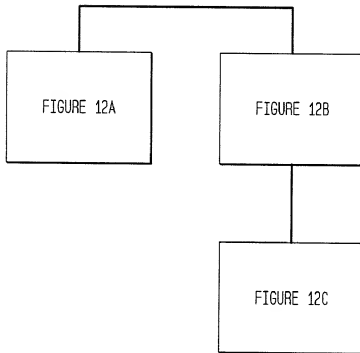
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FIG. 11



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FIG. 12



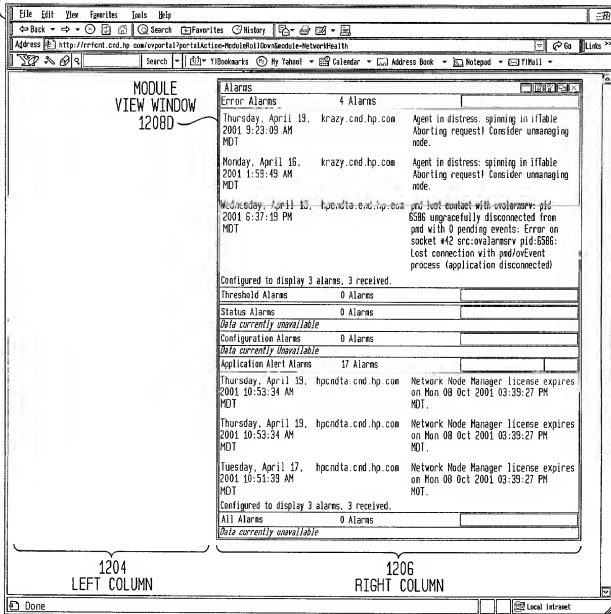
[illegible]

Inventor(s): Robert Raymond

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FIG. 12B

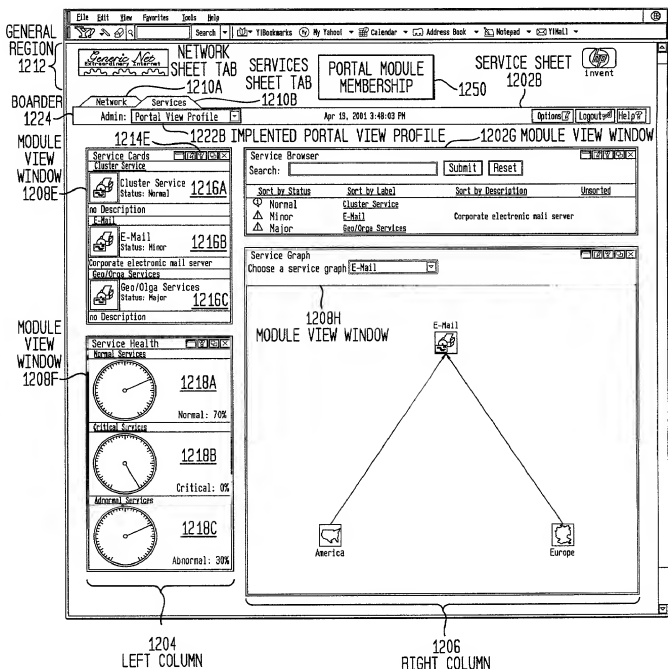
NETWORK  
SHEET  
(CONT)  
1202A



Inventor(s): Robert Raymond

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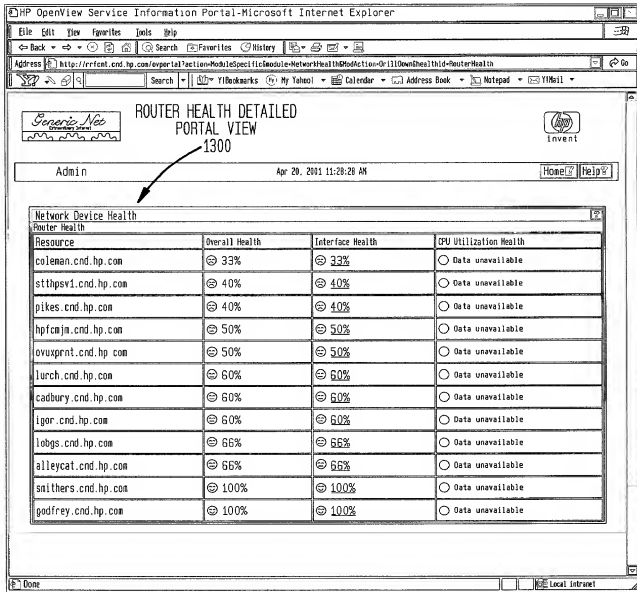
FIG. 12C



Inventor(s): Robert Raymond

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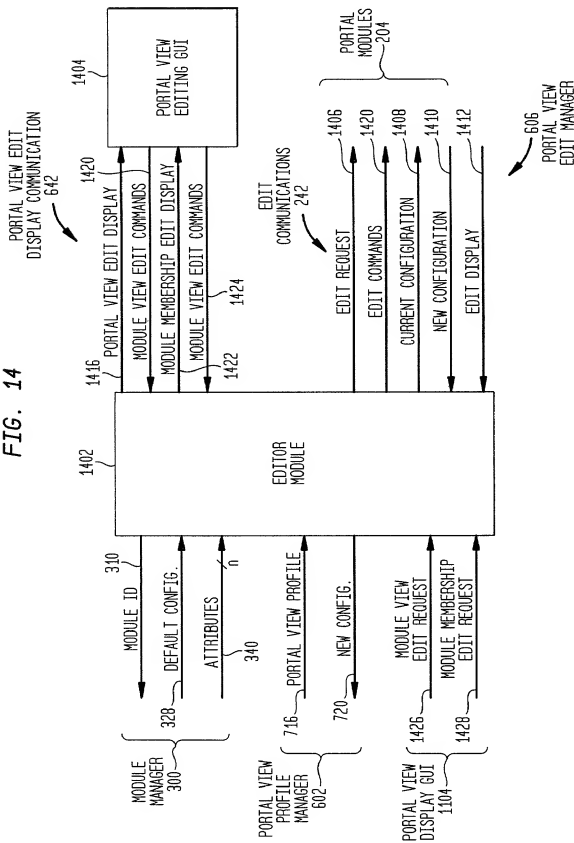
FIG. 13



00845427 003000

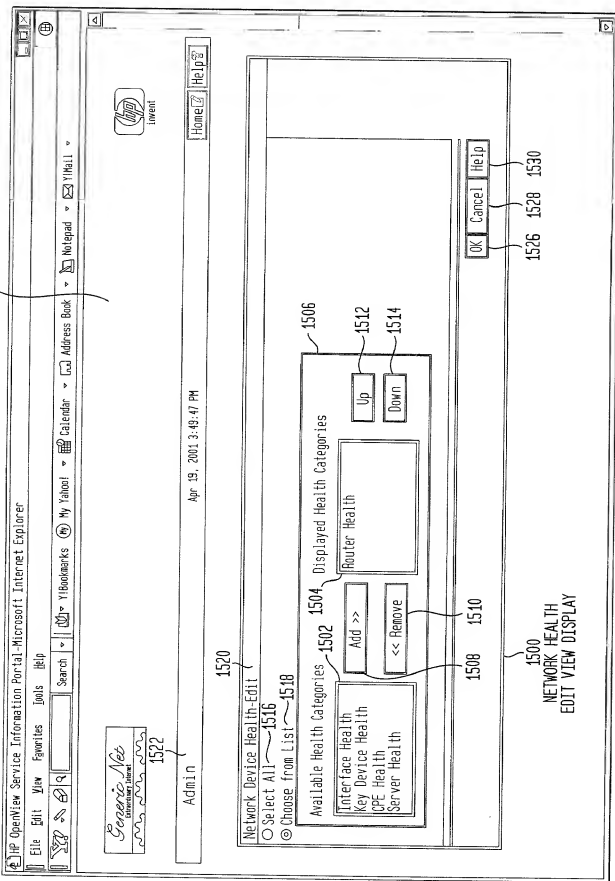


FIG. 14



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FIG. 15



Inventor(s): Robert Raymond

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FIG. 16

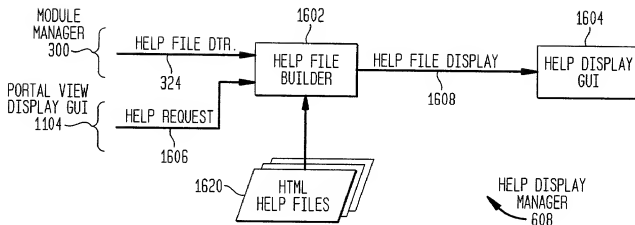
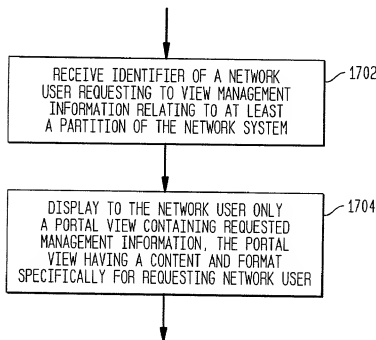
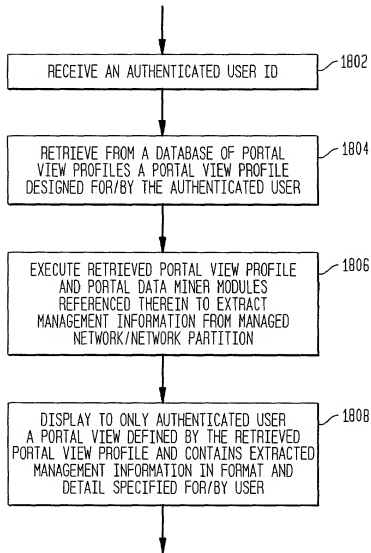


FIG. 17



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FIG. 18



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FIG. 19

